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Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **B.PHARM. - SEMESTER- V • EXAMINATION - SUMMER-2016**

Subject Code: 250006 Date: 12/05/2016

**Subject Name: Pharmacognosy-IV** 

Time: 2:30 PM to 5:30 PM Total Marks: 80

## **Instructions:**

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Discuss life cycle of Ergot Give specific chemical test and commercial importance of ergot alkaloids.	06 05
	(c)	Give source, cultivation and collection method for opium alkaloids.	05
Q.2	(a)	Define alkaloids. Classify alkaloids with suitable examples in each class.	06
	(c)	Write a note on nux-vomica and its adulterants.  Describe chemistry and pharmacological activity of reserpine.	05 05
Q.3	(a) (b) (c)	Discuss the Shikkimic acid pathway in detail. Write brief note on Tracer-technique Give the importance of the study of biogenetic pathway for secondary metabolites.	06 05 05
Q.4	(a)	Give pharmacognosy of Coffee and describe procedure for isolation of caffeine	06
	(c)	Explain stereo-isomerism with natural product examples. What are the Purins derivatives? Explain with example.	05 05
Q.5	(a)	Name the precursors for biogenesis of indole alkaloids and write the biogenetic pathway for synthesis of reserpine.	06
	(c)	Write a note on Vinca alkaloids and their semi-synthetic derivatives.  Give different varieties of Tobacco in India. Explain method of cultivation of it.	05 05
Q. 6	(a)	Enlist Tropane Alkaloids and write Pharmacognostic profile of any one drug contain it	06
	(c)	Describe pharmacognosy of drug having anti-malarial activity Write a brief note on Indian Ephedra	05 05
Q.7	(a)	Differentiate between two species of alkaloidal amine containing drug used as bronchodilator.	06
	(c)	Differentiate between <i>Hyoscyamus niger</i> and <i>Hyoscyamus muticus</i> . Explain the morphology and microscopy of vasaka leaf and draw well labelled diagrams.	05 05

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